

Avian Disease

Countries with confirmed avian disease

- China
- Viet Nam
- Thailand
- Indonesia
- Cambodia
- Iraq
- Russia
- Croatia
- Romania
- Turkey
- India
- Malaysia
- Cyprus
- Azerbaijan
- Hungary
- Slovakia

- Georgia
- Iran
- Azerbaijan
- Bulgaria
- Italy
- Greece
- Egypt
- Saudi Arabia
- Austria
- Slovenia
- Nigeria
- France
- Niger
- Bosnia-Herzegovina
- Japan
- Korea
- West Bank

Is There A Pandemic?



So Far: Only if you are a



Avian Influenza (H5N1) Human Disease

- 2003- Last week 194 total cases with 95 deaths
 - Human disease in China, Indonesia, Viet Nam, Thailand, Cambodia, Turkey, Iraq.
- No confirmed human-to-human transmission
- All recent cases associated with intimate contact with diseased birds

H5N1

- Human infections have generally been associated with massive doses of virus
 - Mortality associated with bacterial and/or viral pneumonias, cytokine storm and coagulopathy.
 - Paucity of postmortem data
- H5N1 spreading out of SE Asia by migrating birds and domestic bird traffic.
 - Legal & Illegal domestic bird traffic the primary route but spread to Europe most likely facilitated via bird migration

Containment Problems

- Most countries lack comprehensive surveillance or response plans
 - Lack short, intermediate or long term plans or needs assessment
 - Poor coordination between Ministries of Agriculture and Health result in inability to assess true capabilities and needs

Containment Problems

- Donor coordination needs improvement
 - Multiple site evaluations hinder host nation response
 - Improved communication between donors needed to coordinate relief measures
- FAO
 - Lacks capacity to provide rapid response and hands on assistance and training

Recent Experience

- Turkey- exception to the region
 - Excellent response
 - Transparency
 - Will serve as a model for the region
 - Looking ahead to control measures after repopulation of domestic poultry population
 - Working with WHO & World Bank to change backyard poultry practices to increase biosecurity

RESPONSE







NATIONAL STRATEGY FOR

PANDEMIC INFLUENZA



HOMELAND SECURITY COUNCIL
NOVEMBER 2005

DoD ACTIVITIES



Integration

- DoD has been an active partner in USG pandemic planning efforts at multiple levels
- DoD specifically included in National Pandemic Strategy
- DoD vested throughout the National Pandemic Plan
 - 29 specific tasks with DoD as lead or supporting
- Development of DoD Pandemic Plan underway due out March 31
 - Medical annex released and reviewed by AFEB

DoD Policy Guidance

- DoD Pandemic Influenza Policy Guidance (Health Affairs)
 - General guidance
 - Clinical guidelines
 - PI vaccine guidelines
 - Containment measures

Tamiflu Release Guidance

- OASD (HA) release authority
 - Release is contingent of Phase 6 declaration
 - Working issues of potential forward deployment of some of the stockpile to facilitate timely delivery
- Priority groups:
 - Hospitalized with PI
 - Preserve operational effectiveness
 - Current supply inadequate to treat all beneficiaries

Antivirals



- Tamiflu
 - Pre-positioned in EUCOM (CENTCOM), PACOM AND CONUS
 - No pediatric formulations pediatric compounding instructions now available
 - Anecdotal and animal data demonstrates efficacy and effectiveness for treatment of current H5N1
 - Resistance documented for Type A influenza
 - 4% adults, up to 20% pediatrics
 - Resistant mutation results in virus that is either incapable of or has decreased infectivity
 - Considering increasing stockpile

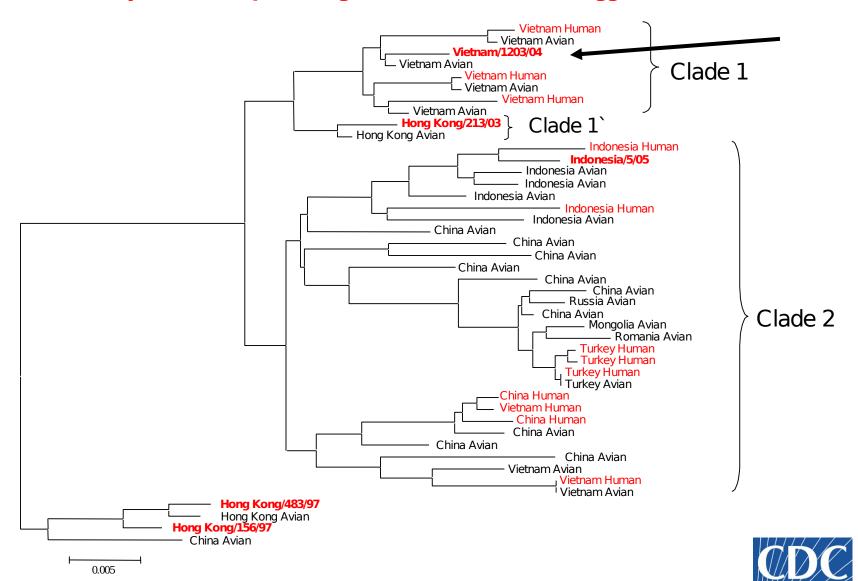
Antivirals

- Relenza
 - Plan to purchase amount to represent
 10% of total antiviral supply
 - May result in less or no resistance but has not been used to date for H5N1
 - Limited per FDA to treatment only
 - Contraindicated in those with history of reactive airway disease
 - Requires education/psychomotor skills

Vaccine

- DoD purchased 2.667 Million doses of Avian influenza (H5N1) vaccine
 - Vaccine is based on 2004 Vietnamese clade
 - No cross reactivity to Indonesian Clade (Clade 2)
 - Will be potentially available Spring 2006
 - Based on 90ug dose requirement
 - Dosage may be reduced pending adjuvant and other antigen sparing strategies
 - Currently in bulk storage (6 week fill requirement)

Evolutionary Relationships Among Influenza A (H5N1) Hemagglutinin (HA1) Genes



Surveillance

- Joint Health Surveillance Center
 - Enhance DoD global situational awareness
 - Standardize collection, reporting and analysis of information
 - Approved by the Force Health Protection Council

Communication

- Trifold Information Sheet
 - Target: Beneficiaries during Phase 5 & 6
 - Non Pharmacologic measures
 - Social distancing
 - Hand Washing
 - Mask use
 - Infection control measures
- HA Avian flu website http://www.deploymentlink.osd.mil
- DoD readiness watch board https://fhp.osd.mil/aiWatchboard/index.html.

Watch board

Provides comprehensive AI situational awareness

- Current disease status
- Countermeasure status
 - Vaccine, Antivirals, Antibiotics, PPE, Ventilators
- Planning status
 - Status of current planning guidance
 - Provides reference to pertinent documents
- Up to date clinical guidelines for providers, labs, etc...

In development

- Prepandemic Tamiflu guidance
- Tamiflu logistics during pandemic phase
- Entry and exit screening
- Clinical tracking tools
- Clinical practice guidelines



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